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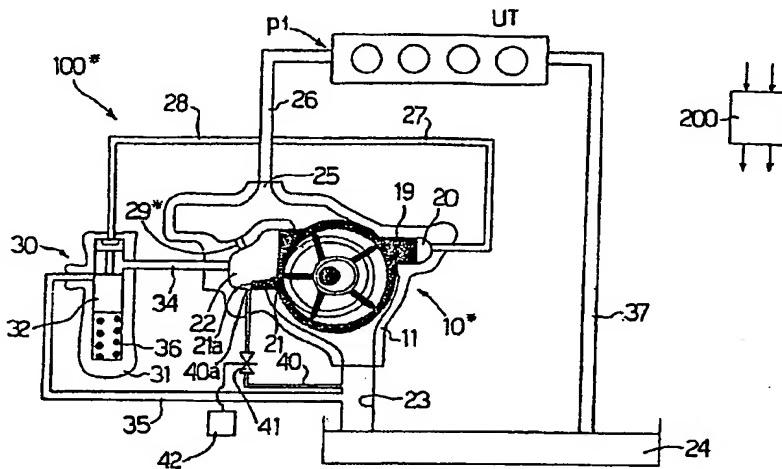
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(54) Title: PUMPING SYSTEM



WO 2005/068838 A1

(57) **Abstract:** A pumping system (100*) having a pump (10*), such as a variable-displacement vane pump (10*) or a gear pump. The pump (10*) in turn has hydraulic pressure-control dissipating devices (29, 30) for imparting to the oil in a first control chamber (22) a pressure (p2) lower than the pressure of a second chamber (20). The system (100*) is characterized in that the first control chamber (22) of the pump (10*) has a channel (40) connecting the first control chamber to an oil inlet (23). And the channel (40) has an opening/closing device (41) controlled selectively by an engine operating parameter, such as oil temperature.

WO 2005/068838 A1



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 195 271 A (RENAULT ET PEUGEOT,FR) 1 March 1974 (1974-03-01)	1-3
Y	page 2, line 39 – page 4, line 8; figures 1,2	4
X	US 4 510 962 A (MOTT ET AL) 16 April 1985 (1985-04-16) column 2, line 28 – column 3, line 15; figure 1 column 4, line 13 – line 15	1-3
Y	US 5 800 131 A (LEHMANN ET AL) 1 September 1998 (1998-09-01) cited in the application abstract; figures 4-7	4
A	US 2003/031567 A1 (HUNTER DOUGLAS G ET AL) 13 February 2003 (2003-02-13) abstract; figures 3,4	1-4

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Patent family members are listed in annex.

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Information on patent family members

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